

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM F100-PW-100/-200 Engines	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Reliability Test Reports	3. SUBTITLE Nsn-2840-00-365-1961 Noun: Air Sealing Ring Flange Production Lot Test / Inspection Report
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4. AUTHORITY (Data Acquisition Document No.) DI-TMSS-81586 / T	5. CONTRACT REFERENCE	6. REQUIRING OFFICE DSCR-JLTB
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7. DD 250REQ SD	9. DIST STATEMENT REQUIRED A	10. FREQUENCY ASGEN	12. DATE OF FIRST SUBMISSION 30DATC	14. DISTRIBUTION												
8. APP CODE N/A		11. AS OF DATE See Block 16	13. DATE OF SUBSEQUENT SUBMISSION N/A	<table border="1"> <tr> <th>a. ADDRESSEE</th> <th colspan="3">b. COPIES</th> </tr> <tr> <th></th> <th>Draft</th> <th colspan="2">Final</th> </tr> <tr> <th></th> <th></th> <th>Reg</th> <th>Repro</th> </tr> </table>	a. ADDRESSEE	b. COPIES				Draft	Final				Reg	Repro
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	Draft	Final														
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16. REMARKS	15. TOTAL
Nsn-2840-00-365-1961 , Part# 4040407 (77445).	0 1 1
Block 4. Tailored:	
Use / Relationship	
The Vendor shall provide a Final Test Report on Production Lot Sample Testing (PLT) and/or Inspection results for Qty-02 each from the first production lot and 03-percent inspection of all critical characteristics on each lot thereafter. First Article Test(Qty-3) are excluded from the PLT Quantity.	
Requirements	
The Report shall address DID para-3 sub-headers a thru i as well as para-3.2 and para-3.3, delete Summary Report rqmt's para-3.1 and 3.1.1.	
The Report Analysis shall address the following as a minimum:	
(a). Verify all dimensional and surface texture rqmt's of dwg 4040407 & spec's.	
(b). Verify conformance of QAD 4040407 to include MPI method MPM MR 3 MT 7 per MPS-Master and VIS-187 per VIS-Master requirements. Also verify conformance of Protective Treatment per PWA830 Code 0SS and Note-7.	
(c). Verify critical characteristics, to be considered as any dimension within .010 tolerance (inclusive). All critical characteristics shall be inspected to 3-percent of every lot size and records maintained for a 5-year minimum.	
(d). Verify conformance of Pratt & Whitney approved sources for special processes, as applicable; and material is per AMS 5613 and PWA11-22.	
(e). Verify test equipment utilized for each inspection / test and provide evidence of any applicable calibration record.	
Quantity shall be selected by the DCM QAR for Awardee testing.	
Material and process certification dates shall be current or the Vendor must submit a Certificate of Quality Conformance to the PCO from the Material and/or Process Supplier to substantiate that the material or process(es) are made to current specification requirements.	
Destructive testing shall be approved by the DSCR PCO only.	
Block 7. The Report shall contain the results from the Awardee testing. Vendor is only authorized to ship contract quantity upon written authorization from the DSCR-PCO.	
Block 11. Report is due no later than 260-days after contract award or FAT approval date..	
Block 14. Distribution as follows: Copy of the contract and drawing(s) shall be provided with the Reliability Test Report to:	
1. DCM - QAR Vendor Office	
2. Defense Supply Center Richmond(DSCR) Attn: DSCR-JLP 8000 Jefferson Davis Highway Richmond, VA 23297-5877	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY <i>Joseph Resyk</i>	H. DATE 05-03-2004	I. APPROVED BY <i>Joseph Resyk</i>	J. DATE 05-03-2004
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INSTRUCTIONS FOR COMPLETING DD FORM 1423
(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

Item A. Self-explanatory.

Item B. Self-explanatory.

Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning," "Configuration Management," etc.

Item D. Enter name of system/item being acquired that data will support.

Item E. Self-explanatory (to be filled in after contract award).

Item F. Self-explanatory (to be filled in after contract award).

Item G. Signature of preparer of CDRL.

Item H. Date CDRL was prepared.

Item I. Signature of CDRL approval authority.

Item J. Date CDRL was approved.

Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.

Item 2. Enter title as it appears on data acquisition document cited in Item 4.

Item 3. Enter subtitle of data item for further definition of data item (optional entry).

Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMS DL), or one-time DID number, that defines data content and format requirements.

Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).

Item 6. Enter technical office responsible for ensuring adequacy of the data item.

Item 7. Specify requirement for inspection/acceptance of the data item by the Government.

Item 8. Specify requirement for approval of a draft before preparation of the final data item.

Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).

Item 10. Specify number of times data items are to be delivered.

Item 11. Specify as-of date of data item, when applicable.

Item 12. Specify when first submittal is required.

Item 13. Specify when subsequent submittals are required, when applicable.

Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.

Item 15. Enter total number of draft/final copies to be delivered.

Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administrative and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

DATA ITEM DESCRIPTION

Title: Reliability Test Reports

Number: DI-TMSS-81586
AMSC Number: G7401
DTIC Applicable: N/A

Approval Date: 5 October 2000
Limitation: N/A
GIDEP Applicable: No

Office of Primary Responsibility: G/Y243
Applicable Forms: N/A

Use/relationship:

These reports are formal records of the results of the contractor's reliability tests and will be used by the procuring activity to evaluate the degree to which the reliability requirements have been met. The reports shall be periodic test summary reports (see 3.1 below) or Final Test Reports (see 3.2 below) as reflected in the contract. These reports may be used to report the results of reliability tests or tests from which reliability evaluation is a by-product.

Requirements:

1. Reference documents: None
2. Format: Contractor format is authorized.
3. Content: The Reliability Test Reports shall contain the results of each test or other action taken to demonstrate the level of reliability achieved in the contract end item and its constituent elements required by the contract. The reports shall specifically contain the following:
 - a. Test article identification and full description of test specimens utilized, including any deviations from the configuration specified in the applicable test plan.
 - b. Date and location of test or evaluation.
 - c. Statement of test/evaluation objectives, including type, unit of measure, and quantitative goals/requirements to be demonstrated.
 - d. Statistical confidence calculations, if appropriate.
 - e. Discussion of methods and conditions of the demonstration, including test plan used, environmental levels, test profile, methods of evaluating the data obtained and comparison of the conditions with those anticipated in ultimate deployment and use of contract item.
 - f. Results obtained, including specific identification and discussion of objectives demonstrated satisfactorily and those not demonstrated satisfactorily.
 - g. Corrective action anticipated, if applicable.
 - h. Contractor's conclusion and recommendations based on evaluation of the test/demonstration results.
 - i. Requirements for and results of retest in cases where a reject decision were reached.

3.1 Summary reports. Periodic Test Summary Reports shall consist of summaries of the progress or status of various reliability tests underway during the reporting period. All periodic summaries shall include the following:

- a. Type and number of units on test and the type of test.
- b. Total elapsed unit hours of test time during the period covered in the report.
- c. Total number of equipment failures for each operational mode specified in the duty cycle.
- d. Description of each failure problem area, related failure analysis, and corrective action.
- e. Test conditions and analysis of any variation from specified conditions.
- f. Present accept/reject status.
- g. A chart showing a plot of the observed Mean Time Between Failures (MTBF) from start of test through the report period and the predicted value of MTBF for comparison.
- h. The status and/or disposition of each corrective action

3.1.1 It is intended that the text of these reports be limited to brief, concise statements of significant progress and present status.

3.2 Final report. The Final Reliability Test Report shall include the information required by 3.1, items a. through h., and the results of the completed reliability tests or other action performed or evaluated to demonstrate reliability. The Final Report can be divided into two parts: Part 1, covering Reliability Qualification Testing, and Part 2, covering Production Reliability Acceptance Tests. Test reports shall include a failure summary and analysis and a general reliability analysis.

3.3 It is intended that the text of these reports be limited to brief and concise statements.

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FOR
FIRST ARTICLE TEST PLANS AND REPORTS

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1. This document provides guidelines for the preparation of first article test plans/test reports for F100 engine parts where referenced within the first article data of a contract.
2. FIRST ARTICLE QUANTITY. The quantity of first articles shall be per the contract. The quantity of articles allowed for destructive testing, in accordance with the contract, shall be tested per the first article procedure in its entirety, to include the destructive testing. The remaining articles shall only be tested per the nondestructive portions of the procedure.
3. TESTING REQUIREMENTS.
 - 3.1. Testing shall consist of, but shall not be limited to, the verification of the following.
 - 3.1.1. Dimensional conformance including finish requirements.
 - 3.1.2. Conformance to non-destructive inspection requirements (FPI, Ultra-sonic, Eddy Current, X-ray, visual)
 - 3.1.3. Conformance of material properties to include mechanical, metallurgical and chemical.
 - 3.1.4. Conformance to other required processes, specifications, and standards listed on the drawing including sub-tier specifications and standards, special requirements as described in the engineering instructions (EI), quality plans, etc.
 - 3.2. First articles shall be serialized. Serial Numbers are to be identified prior to commencement of testing unless otherwise specified.
 - 3.3. Dimensional Inspection.
 - 3.3.1. All dimensions, as listed on the assembly drawing and detail drawings, to include drawing notes, shall be measured where possible on all first articles 100% (no sampling allowed).
 - 3.3.2. A tabular format shall be used with drawing dimension, tolerance, measurement, and instrument/gage/tooling/serial number used.
 - 3.3.3. All tooling and gaging used for inspection and acceptance/rejection of first articles shall have calibrations from a laboratory traceable to NIST and in accordance with ISO 10012-1 (formerly MIL-STD-45662), listed in a (tooling & gaging table) table, table shall include nomenclature, serial number, calibration frequency, next calibration date, range, least increment, and accuracy. Listing shall also include alignment tools and constraint fixtures.
 - 3.3.4. Inspection results shall be presented in a table showing the feature measured, dimension and tolerance, actual reading and gage serial number used.
 - 3.4. Nondestructive Inspections (NDI), including Fluorescent Penetrant Inspections (FPI), Ultrasonic Testing (UT), Eddy Current (EC), Radiographic Testing (x-ray), and visual inspections, shall meet the following:

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- 3.4.1. All first articles shall receive 100% of the inspections identified on the QAD. Sampling shall not be allowed.
- 3.4.2. NDI shall be per the applicable specification(s).
- 3.4.3. Sources used shall be Pratt&Whitney approved per the OC-ALC/LPFR letter granting source approval to the contractor.
- 3.4.4. NDI results shall be presented in a table showing the feature inspected, acceptance/rejection criteria used, results and gage/master serial number used. In cases where photographic standards within a VIS specification are applied to an NDI, the inspection report shall include a copy.
- 3.4.5. Inspection Masters/Transfer Masters shall have current calibrations. A copy of the calibration(s) shall be included into the report.
- 3.4.6. Level III or Level II inspectors, as applicable, shall be required. A copy of the inspector's certification(s) shall be included into the report.
- 3.5. Visual Inspections shall include:
- 3.5.1. Specific visual inspections per a Pratt&Whitney Visual Inspection Standard (VIS) document shall be called out of the applicable VIS and cited as specific inspections.
- 3.5.2. Visual inspection results shall be presented in a table showing the feature inspected, acceptance/rejection criteria used, results, and gage/master serial number used (as applicable).
- 3.5.3. In cases where photographic standards within the VIS are used, the inspection report shall include a copy.
- 3.6. Material properties testing shall include mechanical properties, metallurgical properties, and chemical composition tests, as applicable, per the material specifications and the following:
- 3.6.1. Composition, heat treat condition, and other characteristics/properties, as listed in the technical requirements section, acceptance section, and/or quality sections of the specification(s) so as to verify that the materials and processes are sound, clean, and free of imperfections detrimental to the performance of the part or assemblies.
- 3.6.2. In some cases a material suppliers certification will not be sufficient and the Contractor shall have redundant testing performed.
- 3.6.3. Metallurgical microanalysis, as applicable, for raw materials, weldments, brazements, and coatings shall be conducted. Results shall include the complete laboratory report including photomicrographs.
- 3.6.4. Mechanical testing, as applicable, per manufacturing specifications and the drawing(s).

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3.6.5. In cases where the applicable specifications require test reports, these shall accompany the First Article Test Report (FATR).

4. SUBMITTAL.

4.1. The First Article Test Plan (FATP) shall be delivered to the Contracting Officer in accordance with the schedule as listed in the contract, or Form DD1423. The FATP shall provide a detailed description of specific testing instructions to be used. Generalized instructions will not be acceptable.

4.2. The First Article Test Report (FATR) shall be delivered to the Contracting Officer in accordance with the schedule as listed in the contract, or Form DD1423. All laboratory test results, including those resultant from testing conducted at the contractor's facility and including sub-vendor testing, shall be provided with the FATR in their complete form as provided by the testing laboratory(ies).

5. DISPOSITION OF PARTS.

5.1. When required by the contract, the remnants from destructive testing shall be delivered with the First Article Test Report.

5.2. When required by the contract and following the completion of non-destructive testing, one article shall be delivered to the Contracting Officer and packaged in accordance with contract requirements. Marking on the package shall be **UNSERVICEABLE - Condition Code "R"**. Deliver this part with the First Article Test Report. The other(s) shall be handled in accordance with the contract.

6. GENERAL REQUIREMENTS.

6.1. All First Articles and all Production Articles shall be fabricated from material whose metallurgical state is in compliance with the drawing requirements, as well as all sub-tier specifications and standards referenced therein.

6.2. All First Articles and all Production Articles shall be new manufactured under this contract. No items manufactured under previous contracts shall be delivered without approval.

6.3. The subcontractors previously identified by the contractor as sources to be employed, to include laboratory testing, shall be the only sources used. If the contractor wishes to employ a subcontractor other than previously identified, they shall substantiate that the new source is OEM approved for the specific testing required. A change in the address of a source shall be construed as a change of source. Employment of alternate sources shall only be authorized by OC-ALC/LPFR.

6.4. Engineering Instructions shall take precedence over all other technical instructions.

----- **END OF DOCUMENT** -----